

**SONY®**

3-786-048-11 (1)

## Stereo Amplifier

# TA-V7700

### Operating Instructions page 2

Before operating the unit, please read this manual thoroughly and retain it for future reference.

### Mode d'emploi page 14

Avant la mise en service de cet appareil, prière de lire attentivement ce mode d'emploi que l'on conservera pour toute référence ultérieure.

### Manual de instrucciones página 26

Antes de utilizar la unidad, lea este manual detenidamente y consérvelo para futuras referencias.



# WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

## NOTICE FOR THE CUSTOMERS IN THE UNITED KINGDOM

The mains lead plug of this apparatus is a 2-pin type designed to be connected only to other apparatus equipped with a suitable socket outlet. If the plug cannot be used in this way, cut off the plug and fit an appropriate one as follows:

### IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral

Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

### WARNING

To prevent shock hazard, do not insert the plug cut off from the mains lead into a socket outlet. This plug cannot be used and should be discarded.

## Table of Contents

### Getting Started

Overview .....	3
Precautions .....	3
Installation .....	3
Connecting the system .....	4
Notes on connection	
Overall connection diagram	

Parts identification .....	8
Audio adjustment .....	9

### Using Your Amplifier

Listening to an audio program source .....	10
Recording .....	11
Tape-to-tape recording	

### Troubleshooting

Troubleshooting guide .....	13
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### Getting into the Details

Specifications .....	13
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# Overview

- Power output is 80 W + 80 W (at 6 ohms).
- OPTICAL DIGITAL IN connectors for DAT (Digital Audio Tape) deck and CD player are provided for listening to a digital sound source.
- Tape-to-tape recording can be performed using the REC OUT SELECTOR and the INPUT SELECTOR.

# Precautions

## On operating voltage

Before operating the unit, check that the operating voltage of your unit is identical with the voltage of your local power supply.

Where purchased	Operating voltage
United Kingdom	240 V AC
Continental European countries	220 V AC

## On safety

- The unit is not disconnected from the AC power source as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- Unplug the unit from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- Should any solid object or liquid fall into the unit, unplug the unit and have the unit checked by qualified personnel before operating it any further.

## On cleaning the cabinet

Clean the cabinet, panels and controls with a soft cloth lightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

## On repacking

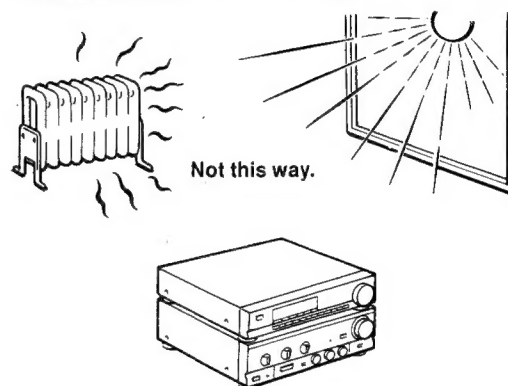
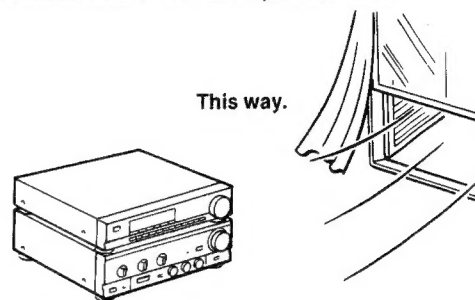
Do not throw away the carton and the packing material. This makes an ideal container when transporting the unit. When shipping the unit, repack it as it was packed at the factory.

If you have any question or problem concerning your unit, please consult your nearest Sony dealer.

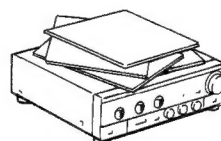
# Installation

## Notes on Installation

Place the unit in a location with adequate air circulation to prevent internal heat build-up in the unit.



Do not place anything on top of the unit. The ventilation holes must be unobstructed for proper operation of the unit and to prolong the life of its components.

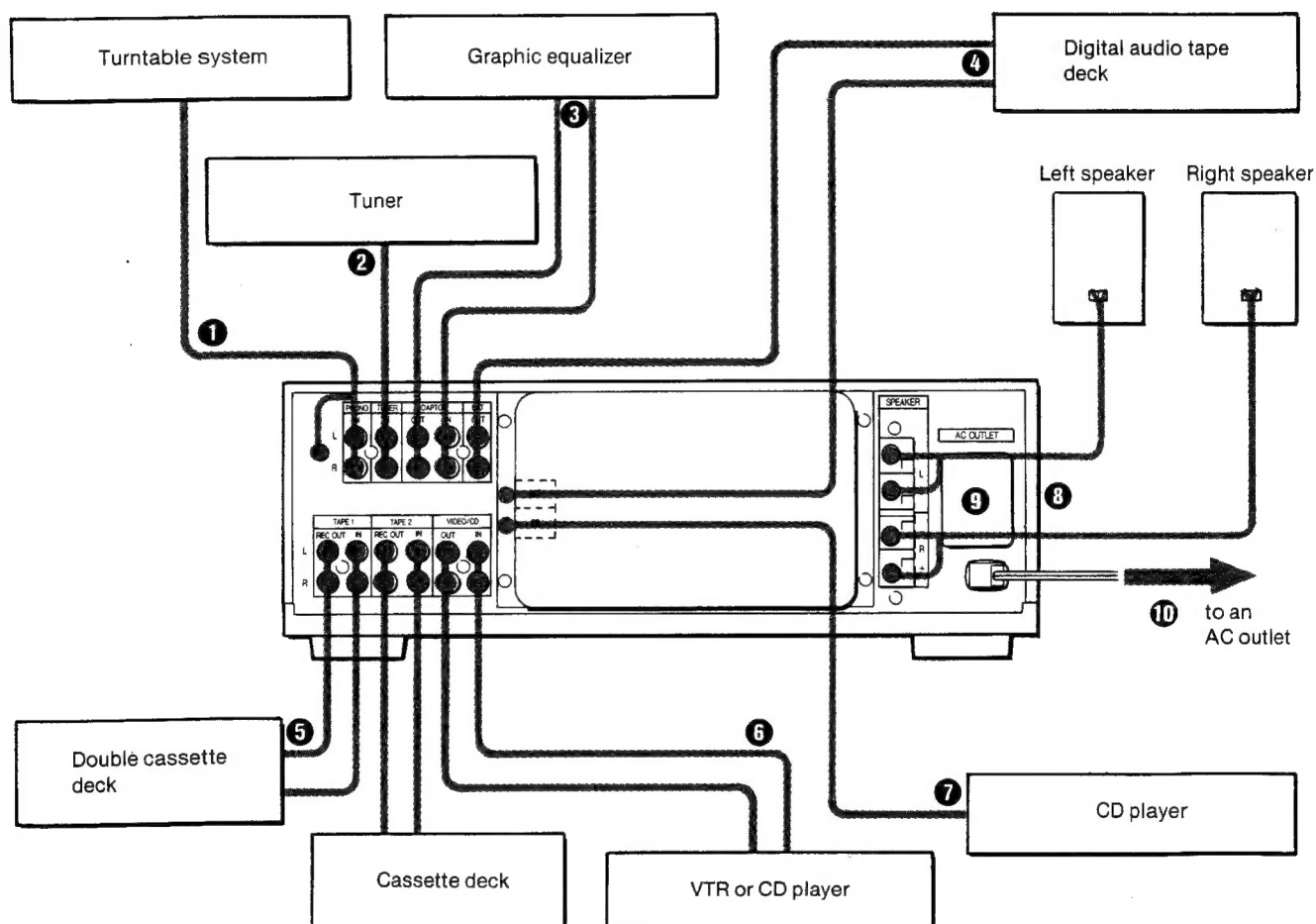


# Connecting the System

## Notes on Connection

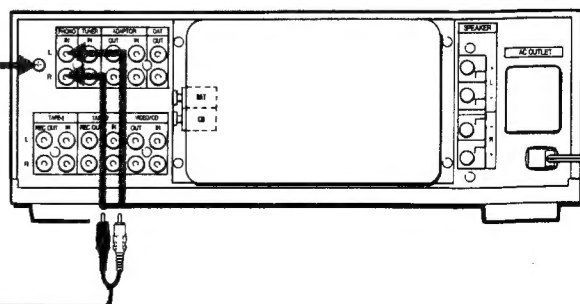
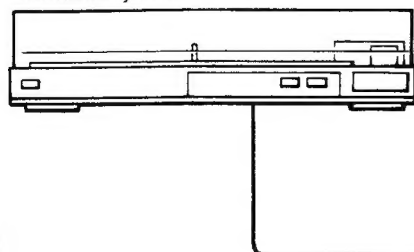
- Connect the AC power cord last. Make sure power is off.
- Cord plugs and jacks are color coded. Red plugs and jacks are for right channel (R) and white ones for left channel (L).
- Fully insert cable connectors into jacks. Loose connections may cause hum or noise.

## Overall Connection Diagram

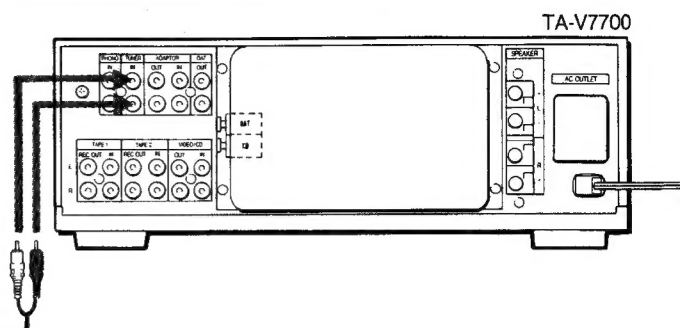
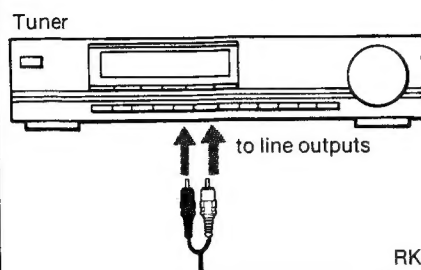


### 1 Connecting a turntable system

Turntable system

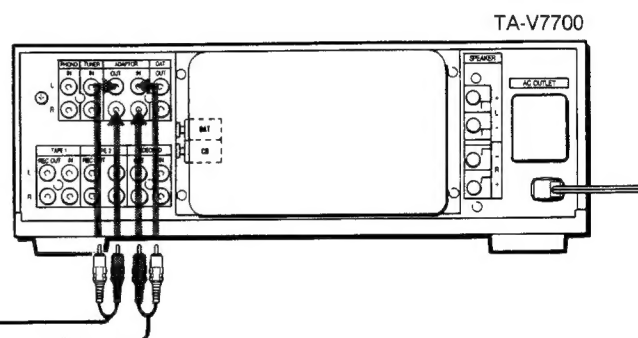
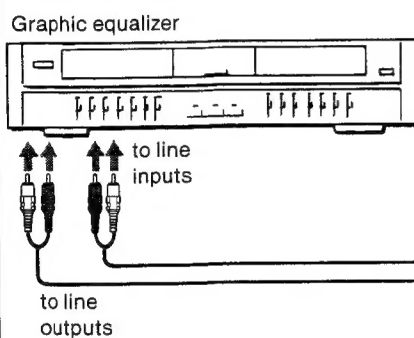


## 2 Connecting a tuner



## 3 Connecting a graphic equalizer

Be sure to turn OFF (released) ADAPTOR when the ADAPTOR jacks are not used. If not, sound cannot be heard.

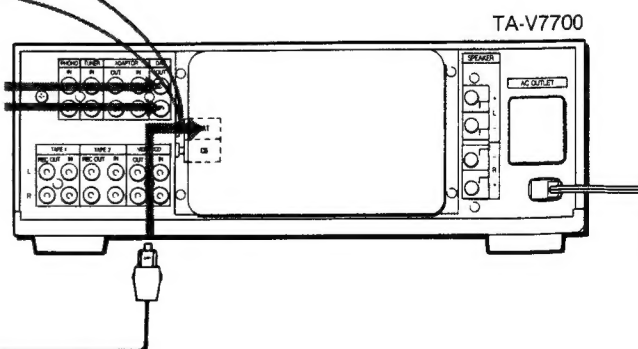
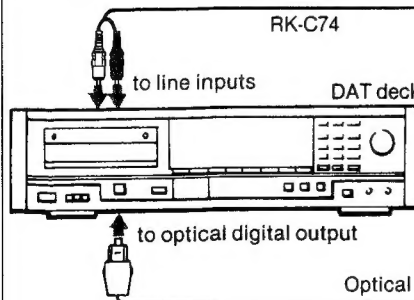


## 4 Connecting a DAT (digital audio tape) deck

1 Remove the cap.



2 Insert the plug.

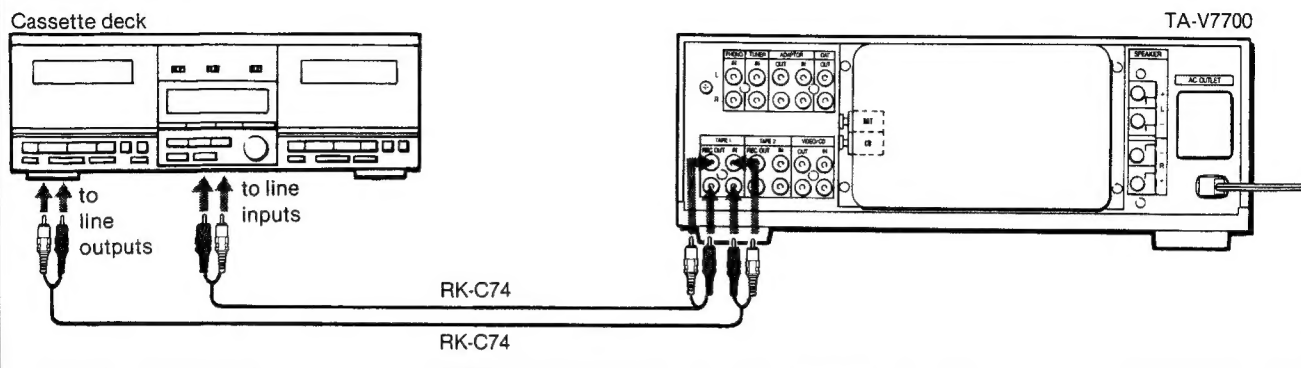


### Note on DAT deck connection

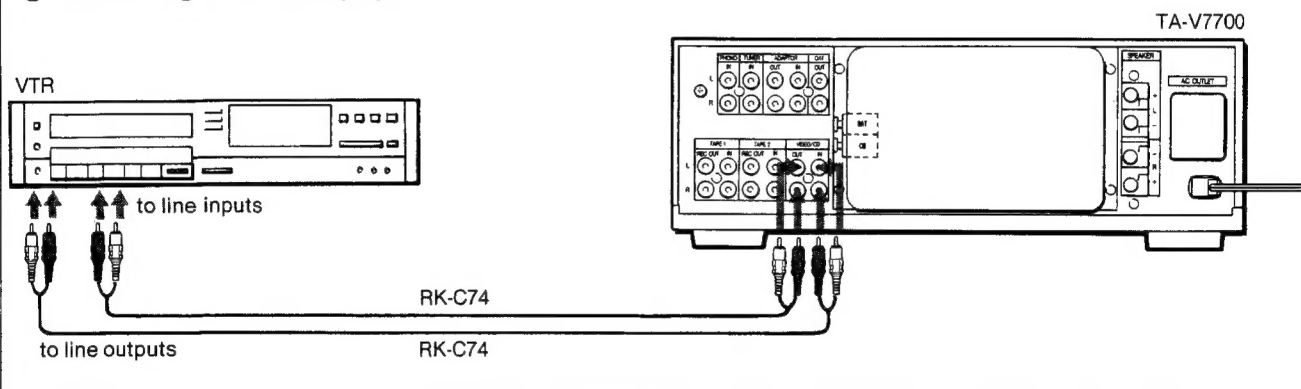
When the DAT OUT jacks are used for DAT deck connection, do not connect another DAT deck to the REC OUT jacks of TAPE 2. If it is connected to the TAPE 2 REC OUT jacks, oscillation may occur.

## Connecting the System

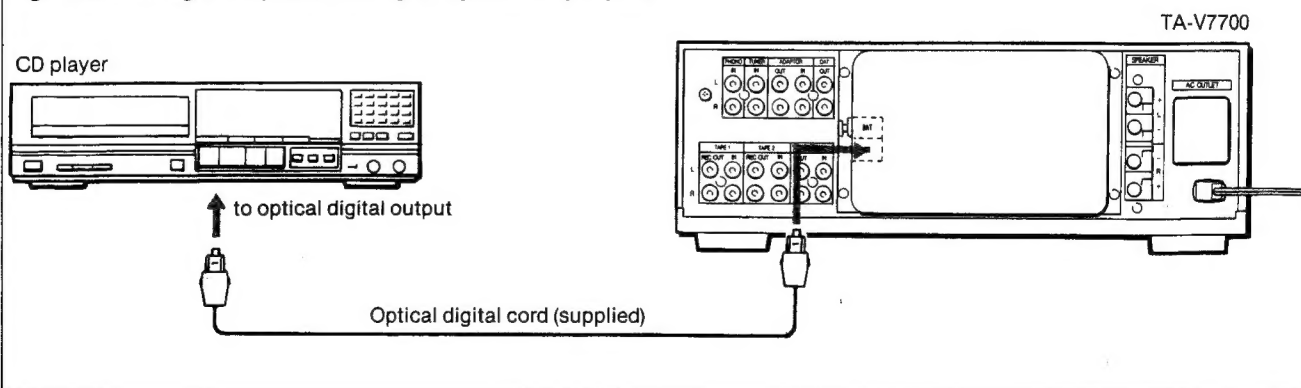
### 5 Connecting cassette decks (For TAPE 1, be sure to use a Sony TC-V7700 or TC-V715T double cassette deck.)



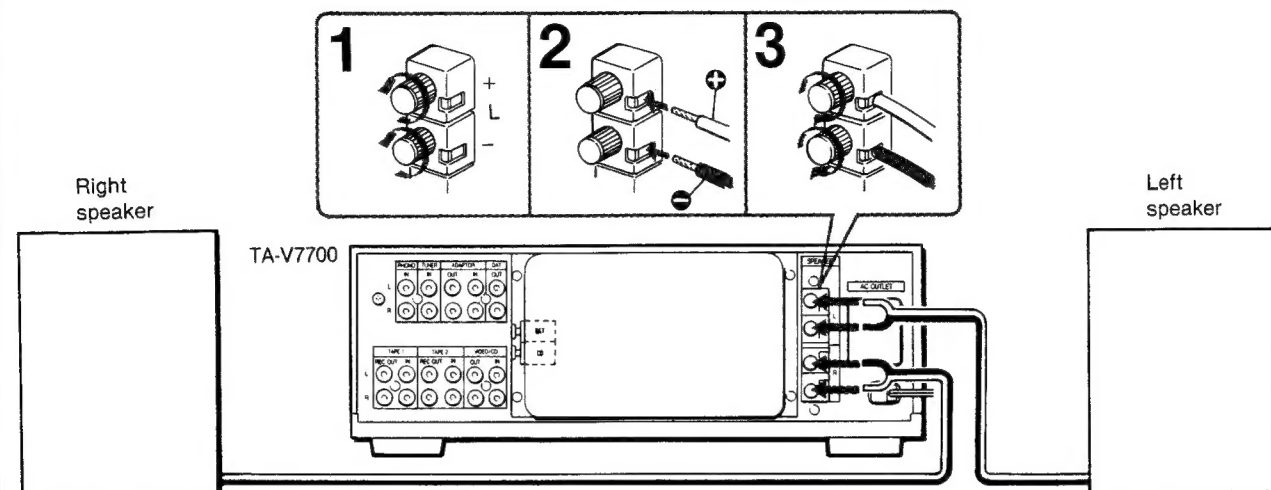
### 6 Connecting a VTR or CD player



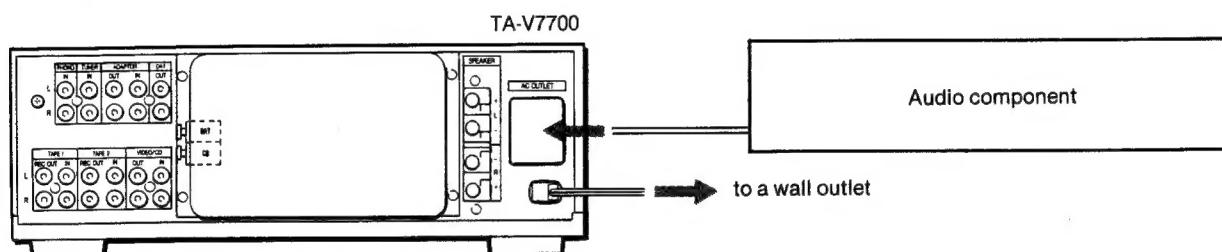
### 7 Connecting a CD player having an optical output jack



**8 Connecting left and right speakers**



**9 Connect the AC power cord of other audio component whose total power consumption is less than the wattage indicated near the AC OUTLET.**

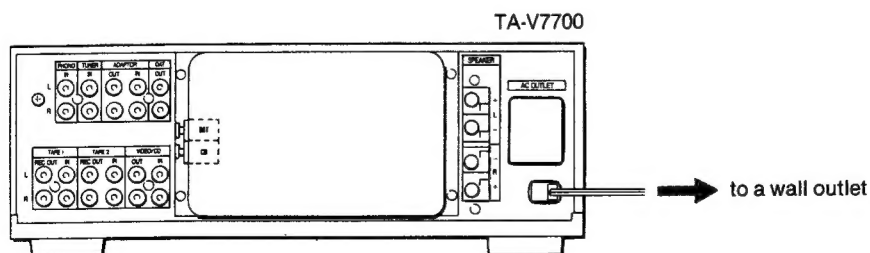


**CAUTION**

Do not connect any electrical home appliance such as an electric iron, fan, TV or other high-wattage equipment to this AC outlet.

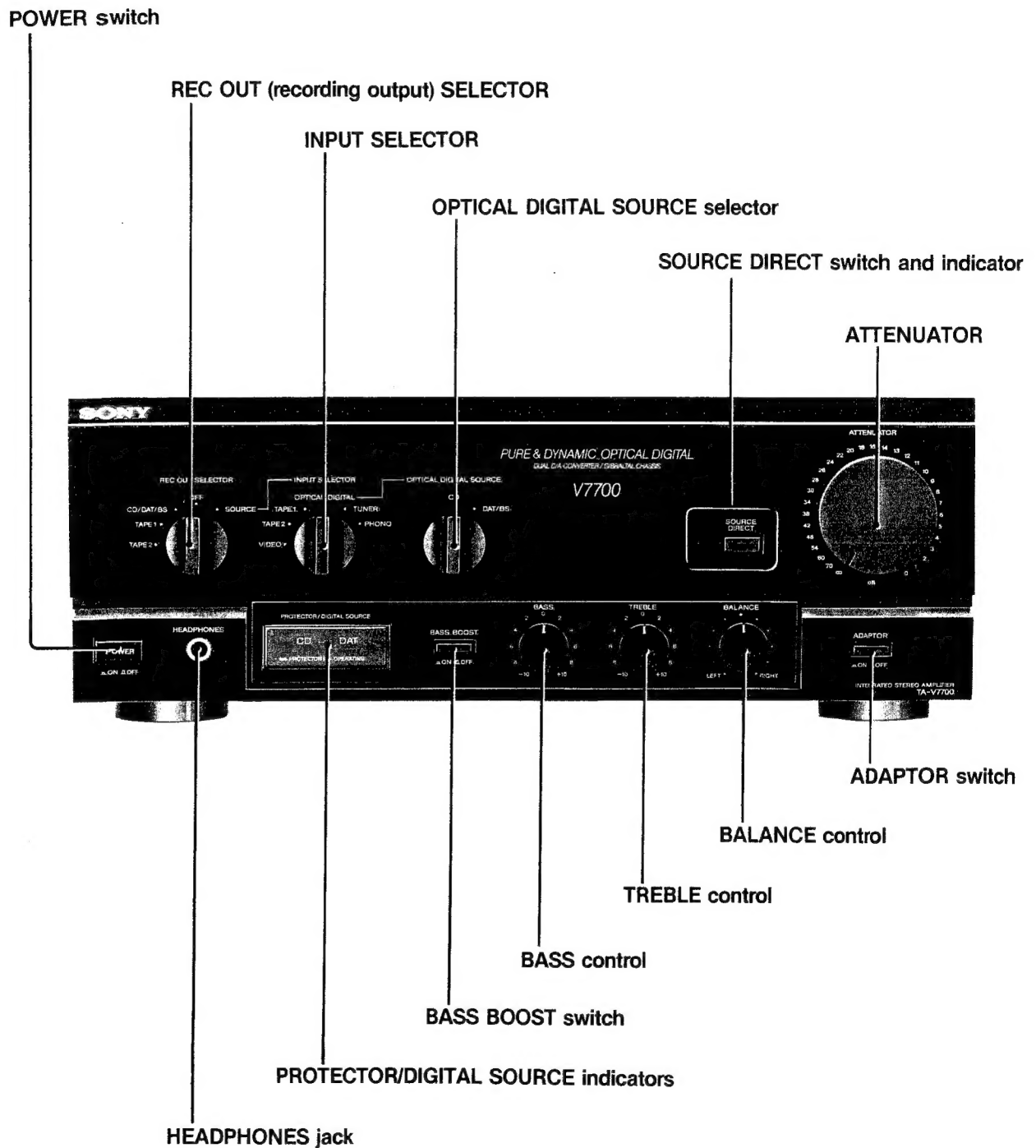
The unswitched socket outlet remains live, independently of power switch setting, at all times when the unit is connected to the AC power supply.

**10 Connect the AC power cord, making sure that the POWER switch is OFF.**



# Parts Identification

Refer to the pages indicated in ● for details.



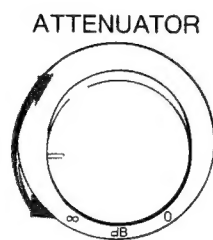


# Audio Adjustment

## Volume Adjustment

### To adjust volume

Turn ATTENUATOR clockwise to increase volume. Turn it counterclockwise to decrease volume.  
Before turning ON the power, turn ATTENUATOR fully counterclockwise ( $\infty$  dB) to avoid damage to the speakers.



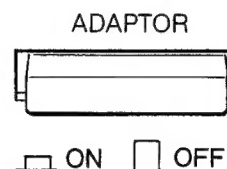
## To Listen to the Sound through the Connected Graphic Equalizer

Depress ADAPTOR.

Be sure to turn OFF (released) ADAPTOR when the ADAPTOR jacks are not used. If not, sound cannot be heard.

### When a graphic equalizer is connected

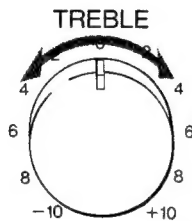
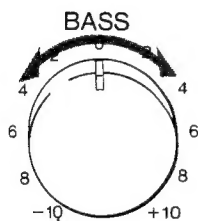
Turn ON the ADAPTOR switch.



## Sound Quality Adjustment

### To adjust the tone quality

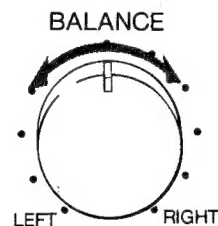
Turn TREBLE clockwise to increase treble sound.  
Turn BASS clockwise to increase bass sound.



## Balance Adjustment

### To change the relative strength of the left and right speaker output

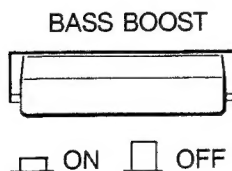
Adjust BALANCE to correct stereo imaging, when the speaker position is not symmetrical.



### To increase bass sound

Depress BASS BOOST.

Normally, set the switch to OFF (released).



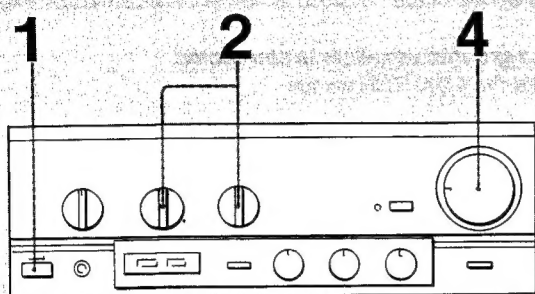
### To listen to the sound input to the unit without passing through the circuits of tone controls

Depress SOURCE DIRECT. The indicator lights up and the circuits of BASS BOOST, BASS, TREBLE and BALANCE controls are disengaged.

### To use the TREBLE and BASS controls, BASS BOOST switch and the connected graphic equalizer simultaneously

Turn the controls slowly from the standard position by confirming the sound effect. If not, sound may be distorted.

# Listening to an Audio Program Source



**1** Turn on **POWER** and the connected components.

**2** Set **INPUT SELECTOR** and **OPTICAL DIGITAL SOURCE** to your desired position.

Desired sound source	INPUT SELECTOR	OPTICAL DIGITAL SOURCE selector
CD program or audio signal of VTR	VIDEO/CD	—
Taped program connected to TAPE 1 inputs	TAPE 1	—
Taped program connected to TAPE 2 inputs	TAPE 2	—
CD program connected to OPTICAL DIGITAL IN (CD) connector	OPTICAL DIGITAL	CD
Digital audio taped program connected to OPTICAL DIGITAL IN (DAT) connector	OPTICAL DIGITAL	DAT
Radio program	TUNER	—
Record program	PHONO	—

**3** Play the program source.

**4** Adjust the sound level with **ATTENUATOR**.

## When you turn on the power

The **PROTECTOR** indicator lights up for approx. five seconds immediately after the power turns on and goes out. The **PROTECTOR** indicator also lights up when the condition is abnormal.

## When a CD player and/or DAT deck are connected to the OPTICAL DIGITAL IN connectors

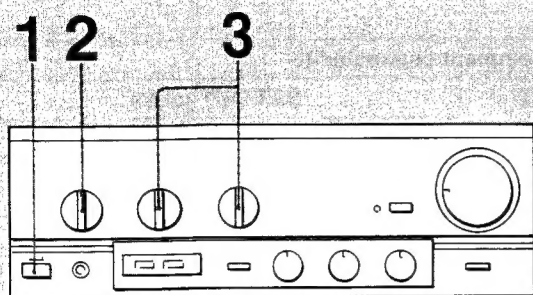
The "CD" and "DAT" **DIGITAL SOURCE** and **OPERATING** indicators light up without regard to the setting of the **INPUT SELECTOR** while power of the connected CD player and DAT deck is on.

## For private listening

Connect headphones to the **HEADPHONES** jack. Speaker sound is automatically disconnected.

# Recording

Recording can be made while listening to the sound.



- 1** Turn on POWER and the connected components.
- 2** Set REC OUT SELECTOR to SOURCE.
- 3** Set INPUT SELECTOR and OPTICAL DIGITAL SOURCE to the proper position.

Audio program source to be recorded	INPUT SELECTOR	OPTICAL DIGITAL SOURCE selector
CD program or audio signal of VTR	VIDEO/CD	—
Taped program connected to TAPE 1 inputs	TAPE 1	—
Taped program connected to TAPE 2 inputs	TAPE 2	—
CD program connected to OPTICAL DIGITAL IN (CD) connector	OPTICAL DIGITAL	CD
Digital audio taped program connected to OPTICAL DIGITAL IN (DAT) connector	OPTICAL DIGITAL	DAT
Radio program	TUNER	—
Record program	PHONO	—

- 4** Play the program source to be recorded.
- 5** Set the connected cassette deck and/or VTR in the record mode.

**To record source sound on DAT deck**  
Be sure to set OPTICAL DIGITAL SOURCE to CD.

## Recording

### Tape-to-Tape Recording

Recording while listening to another program sound selected by the INPUT SELECTOR can be made.

The unit allows tape dubbing between the connected cassette decks and VTR.

See the following chart.

Setting of REC OUT SELECTOR	Recording on the equipment connected to				
	TAPE 1 REC OUT jacks (Recording signal is output.)	TAPE 2 REC OUT jacks	VIDEO/CD OUT jacks	DAT OUT jacks	
				OPTICAL DIGITAL SOURCE selector: CD position	OPTICAL DIGITAL SOURCE selector: DAT position
TAPE 1 (Sony TC-V7700 or TC-V715T double cassette deck only)	Recording is possible.	Recording is possible.	Recording is possible.	Recording is possible.	Signal is not output though REC OUT of DAT.
TAPE 2	Recording is possible.	Signal is not output.	Recording is possible.		
CD/DAT	Recording is possible.	Recording is possible.	Recording is possible.		

**To record the sound through the connected graphic equalizer**  
Depress ADAPTOR ON. The sound equalized by the graphic equalizer can be recorded only when the REC OUT SELECTOR is set to SOURCE.

**To disconnect the output signals**  
Set REC OUT SELECTOR to OFF.

# Troubleshooting Guide

Before going through the check list below, first refer back to the connection and operating procedures. Should any problem persist after you have made these checks, consult your nearest Sony dealer.

Trouble	Cause	Remedy
No audio	<ul style="list-style-type: none"> <li>Faulty setting of INPUT SELECTOR.</li> <li>Faulty connection</li> <li>The ADAPTOR switch is set to ON when the ADAPTOR jacks are not used.</li> <li>The equipment connected to the ADAPTOR jacks is not turned on.</li> </ul>	<ul style="list-style-type: none"> <li>Set it correctly.</li> <li>Connect the unit and other equipments correctly.</li> <li>Turn OFF the ADAPTOR switch.</li> <li>Set the ADAPTOR switch to ON or turn on the equipment.</li> </ul>
No audio from one channel or unbalanced left and right sound level.	Incorrect setting of the BALANCE control.	Set the BALANCE correctly.
No recording	The REC OUT SELECTOR is not correctly set.	Set the selector correctly.
Lack of bass sound or obscure instrument position	Mal-setting of sound quality controls	Adjust the controls for sound quality.
Severe hum or noise	<ul style="list-style-type: none"> <li>Noise from TV, etc.</li> <li>Faulty connection of turntable system</li> </ul>	<ul style="list-style-type: none"> <li>Keep the connecting cords away from transformers or motors, TV and fluorescent lights.</li> <li>Connect correctly.</li> <li>Ground the turntable system.</li> </ul>

## Specifications

Continuous RMS power (both channels driven)  
 80 W + 80 W (6 ohms) at 1 kHz  
 70 W + 70 W (6 ohms) at 40 Hz – 20 kHz

Music power output 300 W  
 Harmonic distortion Less than 0.02% at rated output  
 IM distortion (60 Hz: 7 kHz = 4 : 1)  
 Less than 0.02% at rated output

Frequency response  
 PHONO: RIAA equalization curve  
 $\pm 0.5$  dB

TUNER  
 TAPE 1, 2  
 VIDEO/CD  
 ADAPTOR

10 Hz – 50 kHz  $\pm 0.5$  dB

Residual noise Less than 130  $\mu$ V (6 ohms network A)  
 Input

Input	Sensitivity	Impedance	S/N (network, input level)
PHONO	2.0 mV	50 kohms	70 dB (A, 2.0 mV)
TUNER TAPE 1, 2 VIDEO/CD ADAPTOR	150 mV	50 kohms	91 dB (A, 150 mV)

DA converter  
 Frequency 4 Hz – 20 kHz  $\pm 0.5$  dB  
 S/N More than 95 dB

### Outputs

Output	Type	Voltage	Impedance
DAT OUT ADAPTOR TAPE 1, 2 VIDEO	Phono	150 mV	1 kohms
HEAD- PHONES	Stereo phone	Accepts headphones of 8 ohms or more.	

### Tone controls

BASS  $\pm 10$  dB (at 100 Hz)  
 TREBLE  $\pm 10$  dB (at 10 kHz)  
 BASS BOOST +10 dB (at 20 Hz, 1 W)

### General

#### Power requirements

Model for continental European countries:  
 220 V AC, 50/60 Hz  
 Model for United Kingdom: 240 V AC, 50/60 Hz

#### Power consumption

Model for continental European countries: 150 W  
 Model for United Kingdom: 350 W

AC outlet 1 Unswitched, 200 W max.

Dimensions Approx. 355 × 130 × 368 mm (w/h/d)

Weight Approx. 10.2 kg (22 lb 8 oz), net

Design and specifications subject to change without notice.